

### 3.6 Solving Quadratics and Other Equations Guided Notes

**Example 1** Find the  $x$ -intercept of each equation below. Write your answer in an ordered pair. Consider how the format of the given equation either facilitates or inhibits your work.

1.  $4x + 2y = 24$

2.  $y = 4x + 9$

3.  $y - 3 = 4(3x + 1)$

4.  $y = 6x + 3$

5.  $x - 2 = 3x - 4x - 3x$

6.  $3x - 2y = 14$

**Example 2** Find the  $y$ -intercept of each equation in Example 1.

1.  $4x + 2y = 24$

2.  $y = 4x + 9$

3.  $y - 3 = 4(3x + 1)$

4.  $y = 6x + 3$

5.  $x - 2 = 3x - 4x - 3x$

6.  $3x - 2y = 14$

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